

File XG 520

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Nov 13, 1956

## MEMORANDUM TO THE RECORD

SUBJECT: Trip Report [REDACTED]

1. On 13 November [REDACTED] of the Engineering Division, OC visited [REDACTED] to witness tests on the URT-11 power supply. They were met by [REDACTED]

A URT-11 transmitter had been set up and connected to a Tektronic oscilloscope to show the peak voltage produced by a transient when the plate power was switched on. This voltage was measured at the input to filter choke L2. This transient produced a peak of approximately 6000 volts which is above the breakdown insulation of the choke and filament transformer feedthru insulators. Connecting a .05 microfarad condenser in series with a 4000 ohm 100 watt resistor across choke L2 eliminated this transient peak.

2. In discussing this problem with [REDACTED] it was learned they had tried various combinations of condensers and resistors and finally settle on the above values for this application. [REDACTED] said he had tried this power supply using 400 cycle input power and the transient filter worked satisfactorily. We discussed the actual placement of the condenser and resistor in the power supply. [REDACTED] said he was going to investigate using a new type of spark tube and expected to meet with a manufacturer's representative on Thursday to discuss this.

3. [REDACTED] reported that in some instances when the choke and/or filament transformers had broken down they were replaced with spares from the RT-1B power supply. These units did not break down. [REDACTED] will investigate possibility of procuring either RT-1B transformers and choke or a complete RT-1B transmitter to be delivered to [REDACTED] for comparative testing.

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